### **Decision Memo for Cardiac Pacemakers (CAG-00063R2)**

# **Decision Summary**

CMS will revise CIM65-6 to focus the instruction on the indications for pacemaker use rather than on the pacemaker implantation procedure. This reflects our finding that pacemaker implantation is no longer an experimental procedure. The revised provisions will focus on the medical conditions that indicate that cardiac pacing is a reasonable and necessary treatment. In this decision memorandum, we change only this framework of the coverage determination and do not review the specific provisions setting forth conditions that indicate that cardiac pacing is reasonable and necessary.

Back to Top

## **Decision Memo**

This decision memorandum does not constitute a national coverage determination (NCD). It states the intent of the Centers for Medicare & Medicaid Services (CMS) to issue an NCD. Though the policy is effective with publication of this decision, CMS must issue a manual instruction, program memorandum, CMS ruling or Federal Register Notice, giving specific directions to our claims processing contractors. That issuance is the NCD. If appropriate, the Agency must also change billing and claims processing systems and issue related instructions to allow for payment. The NCD will be published in the Medicare Coverage Issues Manual.

To: Administrative File: CAG 00063R2

Cardiac Pacemakers

From:

Steve E. Phurrough, MD, MPA Director, Coverage and Analysis Group

Marcel Salive, MD, MPH Division Director

Anthony Norris, MPA Lead Analyst Lori Paserchia, MD Lead Medical Officer

Subject: Coverage Decision Memorandum for Cardiac Pacemakers

Date: March 12, 2004

#### I. Decision

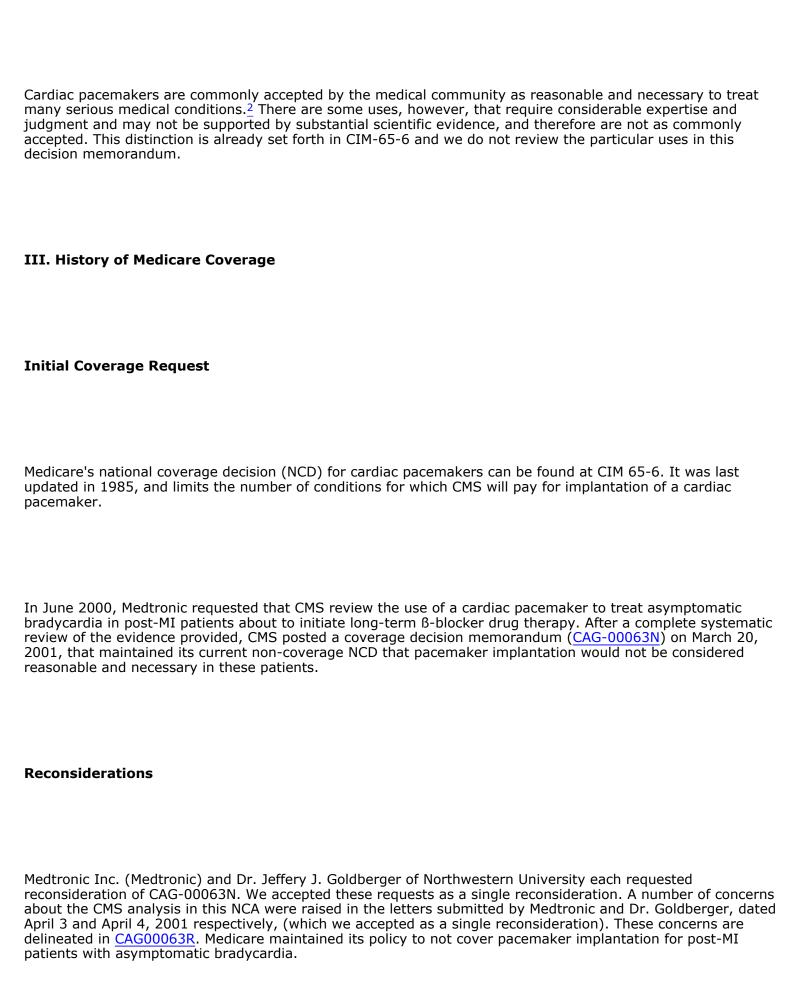
CMS will revise CIM65-6 to focus the instruction on the indications for pacemaker use rather than on the pacemaker implantation procedure. This reflects our finding that pacemaker implantation is no longer an experimental procedure. The revised provisions will focus on the medical conditions that indicate that cardiac pacing is a reasonable and necessary treatment. In this decision memorandum, we change only this framework of the coverage determination and do not review the specific provisions setting forth conditions that indicate that cardiac pacing is reasonable and necessary.

#### II. Background

Cardiac Pacemakers

Cardiac pacemakers are generally implanted to alleviate symptoms of decreased cardiac output related to abnormal heart rate and/or rhythm. Without treatment, an abnormal heart rate can lead to weakness, confusion, dizziness, fainting, shortness of breath, and death. Pacemakers are generally used for persistent, symptomatic second- or third-degree AV block and symptomatic sinus bradycardia. For some patients, it may be appropriate to implant a pacemaker in order to continue pharmacological treatment. It is essential to document an association between symptoms and the dysrhythmia before pacemaker implantation.

The implantation procedure is typically performed under local anesthesia and requires only a brief hospitalization. A catheter is inserted into the chest and the pacemaker's leads are threaded through the catheter to the appropriate chamber(s) of the heart. The surgeon then makes a small "pocket" in the pad of flesh under the skin on the upper portion of the chest wall to hold the power source. The pocket is then closed with stitches. The procedure leaves a small scar and the battery can be felt through the skin.



On October 24, 2003, CMS began a national coverage determination reconsideration process for cardiac pacemaker. The present language speaks to "the medical necessity, or lack thereof, for pacemaker implantation..." The current reconsideration is to determine whether CMS should revise the current NCD to remove pacemaker implantation as the technology for which a reasonable and necessary determination should be made. In order to appropriately assess the benefits of various pacemakers for a number of old and new indications, it is necessary to separate "implantation" from clinical use of a pacemaker in making reasonable and necessary determinations.

#### **IV. Timeline of Recent Activities**

|--|--|--|

#### V. FDA Status

The FDA status for pacemakers can be reviewed in CAG 00063N.

#### VI. Evidence

The purpose of this NCD is to determine the appropriateness of removing implantation of pacemakers as the issue for which a reasonable and necessary determination is made for use of cardiac pacing.

Pacemaker implantation is described above. Less than 2% of patients suffer from complications due to pacemaker implantation. Examples of complications that may occur as a result of pacemaker implantation are not radically different from those that occur with other catheterization procedures, e.g., bleeding, punctured vein, infection, or collapsed lung. $\frac{3}{2}$ 

Printed on 4/6/2012. Page 4 of 6

Professional Society Position Statements
The American College of Cardiology and NASPE - Heart Rhythm Society submitted a joint-letter in support of CMS' proposed action.
Public Comment
CMS received five letters in support of the proposed action.
VII. CMS Analysis
National coverage determinations (NCDs) are determinations by the Secretary with respect to whether or not a particular item or service is covered nationally under title XVIII of the Social Security Act § 1869(f)(1)(B). In order to be covered by Medicare, an item or service must fall within one or more benefit categories contained within Part A or Part B, and must not be otherwise excluded from coverage. Moreover, with limited exceptions, the expenses incurred for items or services must be "reasonable and necessary for the diagnosis or treatment of illness or injury or to improve the functioning of a malformed body member." § 1862(a)(1)(A).
As noted in the Background section above, the procedure used to implant the cardiac pacing devices is neither experimental nor routinely harmful. The technique for implantation of these devices has remained essentially the same since their initial deployment. The risk of harm from implantation of cardiac pacing devices is known and minimal. Therefore, the coverage provisions set forth in CIM65-6should be revised to focus on whether cardiac pacing is a reasonable and necessary treatment for particular medical conditions, rather than on the risks of pacemaker implantation.

